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L/C 3/27/03

(FILE 'HOME' ENTERED AT 16:15:43 ON 26 MAR 2003)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT' ENTERED AT 16:16:05 ON  
26 MAR 2003

L1	50 S (CONDUCTIVE OLIGOMER)
L2	13 S L1 AND ELECTRODE?
L3	13 DUPLICATE REMOVE L2 (0 DUPLICATES REMOVED)
L4	31 DUPLICATE REMOVE L1 (19 DUPLICATES REMOVED)
L5	18 S L4 NOT L3

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L3 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS

AN 1995:896951 CAPLUS

DN 124:103790

TI Oriented and laminated fluoropolymer films, their preparation, organic electronic devices, and their manufacture

IN Wakita, Katsuya; Kawakami, Tetsuji; Sonoda, Nobuo

PA Matsushita Electric Ind Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM H01L051-00

ICS H01L029-786

ICA C09D127-12

CC 76-2 (Electric Phenomena)

Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07221367	A2	19950818	JP 1994-9074	19940131
PRAI	JP 1994-9074		19940131		

AB The films consist of sol. amorphous fluoropolymer oriented films laminated along with elec. **conductive oligomer** films. The films are prep'd. by rubbing the fluoropolymer layers, and laminating the oligomer layers on them. Electronic device contg. the multilayered films sandwiched by a pair of **electrodes** are also claimed. The **conductive oligomer** layers are oriented. The amorphous polymers may be C2F4-perfluoro(2,2-dimethyl-1,3-dioxole) copolymer or radically cyclic-polymd. unsatd. unsym. perfluoroether. The oligomers may be oligothiophene. The films with high carrier mobility are used in FETs.

ST laminated oriented org film electronic device; thiophene oligomer conductive film device; fluoropolymer multilayer orientation film; FET fluoropolymer multilayer orientation film

IT Crystal orientation

Electric conductors

(oriented and laminated fluoropolymer films, their prepn., org. electronic devices, and their manuf.)

IT Transistors

(field-effect, oriented and laminated fluoropolymer films, their prepn., org. electronic devices, and their manuf.)

IT 37626-13-4, Perfluoro(2,2-dimethyl-1,3-dioxole)-tetrafluoroethylene copolymer 64080-44-0, Cytop 143906-66-5 168100-95-6

RL: DEV (Device component use); USES (Uses)

(oriented and laminated fluoropolymer films, their prepn., org. electronic devices, and their manuf.)

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5 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2003 ACS

AN 1973:412000 CAPLUS

DN 79:12000

TI Photoconductive elements including barrier layers of **conductive oligomers**

IN Ferro, Anthony

PA Uniroyal, Inc.

SO U.S., 5 pp.

CODEN: USXXAM

DT Patent

LA English

IC G03G

NCL 096001500

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3719485	A	19730306	US 1970-43655	19700501
	US 3646099	A	19720229	US 1967-674737	19671012
	GB 1229877	A	19710428	GB 1968-1229877	19680924
	NL 6814137	A	19690415	NL 1968-14137	19681003
	AT 302655	B	19721025	AT 1968-9716	19681004
	AT 303515	B	19721127	AT 1970-9096	19681004
	AT 309204	B	19730810	AT 1970-9097	19681004
	BR 6802936	A0	19730111	BR 1968-202936	19681008
	BE 722039	A	19690409	BE 1968-722039	19681009
	FR 1584934	A	19700102	FR 1968-1584934	19681010
	SE 346310	B	19720703	SE 1968-13699	19681010
	ES 359073	A1	19700516	ES 1968-359073	19681011
	CH 498162	A	19701031	CH 1968-498162	19681011
	CH 512577	A	19710915	CH 1968-512577	19681011
	US 3859260	A	19750107	US 1973-390472	19730822

PRAI US 1967-679956 19671012  
US 1967-674737 19671012  
US 1967-67995 19671012  
US 1971-181634 19710917

AB Bisulfite regulated oligomers  $H(CH_2CR_2CO_2M_1)_a(CH_2CR_1X)_b$   $BS-O_3M$  ( $R_1, R_2 = H, Me; M, M_1 = \text{alkali metal, ammonium}; X = CN, CONH_2; a + b = 15-40; (b/a) + b = 0.15-0.35$ ) useful as conductive agents for the conductive barrier layer coating on photoelectrostatic copying paper or other photoelectrostatic recording members are described. These oligomers have a low viscosity, are resistant to solvents, specifically in a solvent-based copying process, in order to prevent solvent penetration of the recording member, of neutral color, and are easy to prep. in an aq. medium. The oligomers need no intermediate processing steps, such as the removal of solvent or unreacted monomer. Thus, a paper support coated with a barrier layer of  $H(CH_2CHCO_2K)_{15}(CH_2CHCN)_5SO_3Na$  and photosensitive  $ZnO$  was aged for 45 days at 72.degree.F and 50% relative humidity. The sheet was then imagewise exposed in a SCM 33 copier to give a good image. The barrier layer also had good solvent resistance to mineral spirits and PhMe and was odorless.

ST oligomer bisulfite conductive barrier; electrophotog conductive barrier oligomer

IT Photography, electro-  
(elec. conductive bisulfite-regulated oligomer barrier layers for paper supports for)

IT 42033-46-5 42033-47-6 42033-48-7 42033-49-8

RL: USES (Uses)

(elec. conductive barrier layer from, for electrophotog. paper supports)

5 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS  
AN 1994:219219 CAPLUS  
DN 120:219219  
TI Intelligent material with conducting polymer  
AU Shimidzu, Takeo  
CS Div. Mol. Eng., Kyoto Univ., Kyoto, 606, Japan  
SO Seramikkusu (1993), 28(6), 568-75  
CODEN: SERAA7; ISSN: 0009-031X  
DT Journal; General Review  
LA Japanese  
CC 37-0 (Plastics Manufacture and Processing)  
AB A review with 25 refs. on "intelligent" elec. conducting polymers describes prepn. by direct connection of **conductive oligomers** to optically functional mols., Langmuir-Blodgett (LB) films with anisotropic cond., and super-lattices prepd. by accumulating conductive LB films.  
ST review intelligent elec cond polymer; Langmuir film conducting polymer review  
IT Electric conductivity and conduction  
(anisotropic, of Langmuir-Blodgett films of intelligent polymers)  
IT Electric conductors, polymeric  
(prepn. of intelligent, with optically functional groups)  
IT Films  
(Langmuir-Blodgett, of elec. conducting intelligent polymers)

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